6.5 Polar Equations (key-odd)

Note: There is a typo on 16. It should be r = 3 cos(2Θ)

1. $\left(3\sqrt{2}, \frac{\pi}{4}\right)$

3. plot point

5. plot point

7. $\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

9. (-1, 1)

11. $\left(2\sqrt{2}, 135°\right)$

13. $\left(2, 90°\right)$

15-22. Use calculator to graph, make sure you are in the correct mode, check your window settings also.

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23. $x^2 + y^2 = 4x$
$or \quad x^2 - 4x + y^2 = 0$

25. y = x

27. $r = \frac{-6}{\sin\theta}$

29. -64 (show work!)

31. $\frac{7}{17} + \frac{6}{17}i$ (show work!)

33. 625 lbs. (show work!)